calories

Answer: 255

| H3RDGRADEWARM145PMR-Alfredo Alvarez |   |   |  | https://xlitemprod.pearsoncmg.com/api/v1/print |   |        | -    |  |
|-------------------------------------|---|---|--|--|---|--------|------|--|
|                                     | tudent:ate:   | Instructor: Alfredo A<br>Course: Math 0410 /                |  | Assignm<br>MATH3R                              |   | WARM14 | 5PMR |  |
| 1.                                  | Determine the place value of the digit  Choose the correct answer below.  hundreds thousands ones tens  Answer: tens  | 7 in the whole number                                       |  | 37 (<br>Tens                                   |   |        |      |  |
| 2.                                  | Write the whole number in expanded for 9240  9240 = (Type your and Answer: 9000 + 200 + 40  | orm.<br>9(<br>swer using plus signs.)                       | 92<br>(1000) + 2(  | (w)  | =<br>+41                                  | (10) 5 |      |  |
| 3.                                  | The table shows the number of calories minutes of exercise and how the numb varies according to the weight of the percentage. For a person weighing 140 percentages will be burned during 30 minutes. | er of calories burned<br>erson doing the<br>bunds, how many | Activity Moderate jogging Moderate walking Moderate cycling Aerobic dance Racquetball Tennis | 342<br>120<br>148<br>218<br>224                | 140 lb<br>399<br>140<br>172<br>255<br>262 | (25    | 5    |  |

of 41

Caluries

4. The table shows the number of calories burned during 30 minutes of exercise and how the number of calories burned varies according to the weight of the person doing the exercise. For a person weighing 140 pounds, which activity burns the most calories?

| Activity         | 100 lb | 140 lb | Must     |
|------------------|--------|--------|----------|
| Moderate jogging | 294    | 412    |          |
| Moderate walking | 100    | 140    | Calories |
| Moderate cycling | 127    | 178    |          |
| Aerobic dance    | 176    | 246    |          |
| Racquetball      | 195    | 273    |          |
| Tennis           | 138    | 193    |          |
|                  |        |        |          |

Choose the correct answer below

- A. Racquetball
- O B. Moderate cycling
- C. Moderate walking
- O. Tennis
- E. Moderate jogging
- F. Aerobic dance

Answer: E. Moderate jogging

The table shows the five longest rivers in the world.

Use the table to determine which river is the longest in the world.

Which river is the longest in the world?

- O Nile
- Amazon
- Tenisei-Angara
- Mississippi-Missouri
- Chang jiang-Yangtze

Answer: Nile

| River                       | Miles |
|-----------------------------|-------|
| Chang jiang-Yangtze (China) | 3964  |
| Amazon (Brazil)             | 4000  |
| Tenisei-Angara (Russia)     | 3442  |
| Mississippi-Missouri (U.S.) | 3740  |
| Nile (Egypt)                | 4145  |
|                             |       |

Lungest

 The table shows the top ten popular breeds of dogs. Use the table to answer the following question.

Which breed has a greater average weight, the Golden retriever or the Labrador retriever?

The (1) has a greater average weight.

| Top Ten              | Popular Breed                          | ls of Dogs                                      |   |
|----------------------|--|---|---|
| Breed                | Average Dog Maximum Height (in inches) | Average Dog<br>Maximum<br>Weight<br>(in pounds) |   |
| Labrador retriever   | 25                                     | 75  | 2 |
| German<br>shepherd   | 26                                     | 95  | , |
| Golden<br>retriever  | 24                                     | 80  |   |
| Beagle               | 15                                     | 30  |   |
| Bulldog              | 26                                     | 90  | a |
| Yorkshire<br>terrier | 9                                      | 7   | h |
| Boxer                | 25                                     | 70  |   |
| Poodle               | standard: 26                           | standard: 70                                    |   |
| Rottweiler           | 26                                     | none given                                      |   |
| Dachshund            | 9                                      | 25  |   |

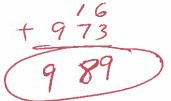
- (1) O Labrador retriever
  - O Golden retriever

Answer: (1) Golden retriever

7. Add.

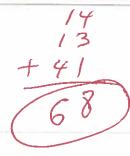
16 + 973

Answer: 989



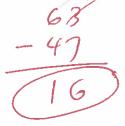
8. Add.

The sum is



9. Subtract.

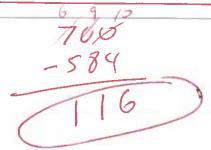
The difference is



Answer: 16

10. Subtract.

The difference is

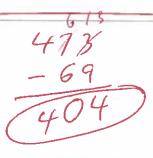


Answer: 116

11. Subtract, Check by adding.

The difference is

Answer: 404

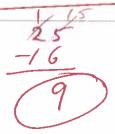


12. Subtract.

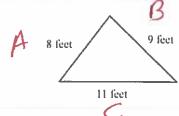
$$25 - 16$$

The answer is

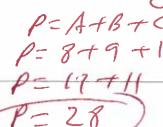
Answer: 9



13. Find the perimeter of the figure.

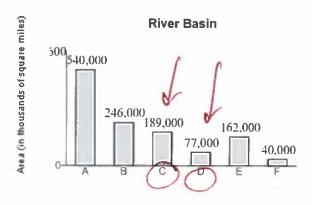


The perimeter is feet.



| 14. | Find the perimeter of the figure.  ft  Answer: 6  | Rectangle  1 foot $P=2L+2W$ $P=2(2)+2(1)$ $P=4+2$ $P=6$  |
|-----|---|--|
| 15. |   | P = AfB + (+D + E + F) $P = 17 + 8 + 7 + 18 + 12 + 17$ $D$ $18  centimeters$ $7  centimeters$ $8  centimeters$ $12  centimeters$ |
|     | Answer: 79  | A 17 centimeters 17 centimeters  |
| 16. | Find the total of 89, 29, 3, 17, and 275.  The total is   | 89<br>29<br>3  |
|     | Answer: 413   | + 275  |
| 17. | Find the difference of 92 and 77.  The difference is  | 92   |
|     | Answer: 15  | (13)   |
| 18. | What is 365 increased by 80?  365 increased by 80 is  Answer: 445   | 365<br>+ 30<br>(445)   |
| 19. | A new notebook computer with DVD player costs \$510 be left in his checking account after he buys the noteb | Derik Muller has \$1107 in his checking account. How much will ook computer?   |
|     |   | king account after he buys the notebook computer.  |
|     | Answer: 597   | <del>- 510</del><br><del>597</del>   |

20. Find the total land area drained by the C and D sub-basins.

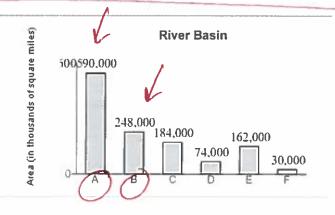


sq mi

Answer: 266,000

21. How many more square miles of land is drained by the A sub-basin than the B sub-basin?

342000



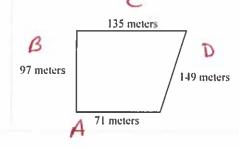
sq mi

Answer: 342,000

22.

Alexander is installing a pen for his dog. The pen will have the shape and dimensions of the figure shown to the right. How many meters of fencing are needed to enclose the the area shown? P= A+B+C+D

P=71+97+135+149



Answer: 452

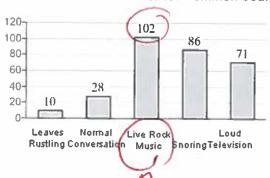
23. Evelyn Abrams is reading an 845-page book. If she has just finished reading page 693, how many more pages must she read to finish the book?

pages

24. What is the dB rating for live rock music?

ecibels (dB)

102 decibels **Decibel Levels for Common Sounds** 



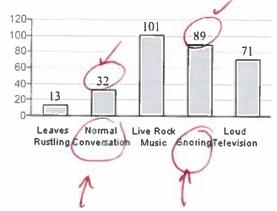
Answer: 102

25. How much louder is the sound of snoring than normal conversation?

dB

89 -32 -57 Decibels (dB)

**Decibel Levels for Common Sounds** 



dB

Answer: 57

26. A permanent game board is made of granite. It is in the shape of a square with side lengths of 34 ft. Find the perimeter of the square playing board.

and offered brackets

The perimeter is feet.

Answer: 136

34 P=45 34 P=413

136

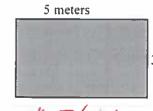
27.
The table on the right shows the number of a particular store in ten states. What is the total number of stores located in the three states with the most stores?

A total of stores are located in the three states with the most stores.

| State      | Number of Stores |
|------------|------------------|
| Arizona    | 27               |
| California | 63               |
| Florida    | 82               |
| Georgia    | 91               |
| Illinois   | 144              |
| New York   | 48               |
| Michigan   | 193              |
| Minnesota  | 29               |
| Ohio       | 76               |
| Texas      | 58               |

| 28. | A particular state has 2059 miles of urban highways a  | and 3838 miles o | f rural highways. Find the total highway mileage in |
|-----|--|------------------|---|
|     | the state.   |                  | 2059  |
|     | The total highway mileage in the state is  | miles.           | + 3838  |
|     | Answer: 5897   |                  | (5897)  |
| 29. | Round 9,768 to the nearest hundred.  |                  | 9768<br>1 since 675<br>round up                     |
|     | The number 9,768 rounded to the nearest hundred is   |                  | found up  |
|     | Answer: 9,800  |                  | 9800  |
| 30, | Round 55,227 to the nearest thousand.  |                  | 55227<br>1 some 265<br>de not round up              |
|     | 55,227 rounded to the nearest thousand is  |                  | do not round up                                     |
|     | Answer: 55,000   |                  | 55000   |
| 31  | Estimate the perimeter of the rectangle by first   | L -              | (60)  |
|     | rounding the length of each side to the nearest  | 57 meters        | $\sim \omega$                                       |
|     | ten.   | Rectangle        | 17 meters -> (20)                                   |
|     | The setting test and a six of the set of the |                  | p=2(60)+2(20)<br>p=(20+40                           |
|     | The estimated perimeter is meters.   |                  | p= (2) + ((3)                                       |
|     | Answer: 160  |                  | P=1603  |
| _   |  |                  | 1   |
| 32. | Multiply.  |                  | 7 G   |
|     | 76   | ×                |   |
|     | × 9  |                  | 684   |
|     |  |                  |   |
|     | Answer: 684  |                  | 4   |
|     | policina de la companya del companya de la companya del companya de la companya d |                  | 7   |
| 33. | Multiply.  |                  | , 6 /   |
|     | 67<br>× 75   |                  | X (1)   |
|     | × 73   |                  | 469   |
|     | The product is   |                  | (-025)  |
|     |  |                  | ()  |
|     | Answer: 5025   |                  |   |
|     |  |                  |   |
| <   |  |                  |   |

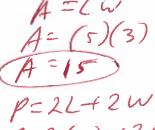
34. Find the area and the perimeter of the rectangle shown to the right.



3 meters

The area of the rectangle is

The perimeter of the rectangle is (2)

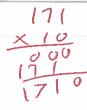


- (1) Cubic meters.
- (2) Cubic meters. meters.
- meters. square meters.
- square meters.

- Answers 15
  - (1) square meters.

16

- (2) meters.
- 35. One triple fudge brownie contains 171 calories. How many calories are in 10 triple fudge brownies?



calories

Answer: 1710

1(N)=171(D) Cruss mult

The textbook for a course in biology costs \$97. There are 36 students in the class. Find the total cost of the biology books

for the class.

The total cost is \$

Answer: 3,492

37. A plot of land measures 90 feet by 130 feet. Find its area.

The area of the rectangle is

(1)

- (1) Cubic feet.
  - square feet.
  - O feet.

Answers 11,700

(1) square feet.

|     |  | 4       |
|-----|--|---------|
| 38. | One ounce of nuts contains 215 calories. How many calories are in 9 ounces of nuts?  | 215     |
|     | calories $\frac{1}{2} = \frac{9}{11}$  | × 9     |
|     | 213  | 1938    |
|     | Antwort: 1935 $I(N) = 2/5(8)$  | 1 ()    |
|     | W= 1935  |         |
| 39. | A plant for a tea company has bagging machines capable of bagging 3000 bags of tea per minute. hours a day, how many tea bags are produced in one day?  The assessment and the second s  | 19hr)   |
|     | The company produces tea bags in one day of operation. $A = (3000)$  | 9 (60)) |
|     | Answer: 3,420,000 A = 3,420,000  |         |
|     |  |         |
| 40. |  | 5 /320  |
|     | 5) 320   | - (30)  |
|     | Select the correct choice below and, if necessary, fill in the answer box to complete your choice.   | 70      |
|     | ○ A. The quotient does not have a remainder. The quotient is   | 201     |
|     | B. The quotient has a remainder not equal to 0. The quotient is  |         |
|     |  | 0 ren   |
|     | C. The quotient is undefined.  |         |
|     | Answer: A. The quotient does not have a remainder. The quotient is 64 .  |         |
|     |  |         |
| 41. | Divide the following and then check by multiplying.  | (89 %)  |
|     | 3)269  | 3/269   |
|     | Select the correct choice below and, if necessary, fill in the answer box to complete your choice.   | -(24)   |
|     | delect the correct choice below and, if necessary, in in the answer box to complete your choice.   | 29      |
|     | ○ A. The quotient does not have a remainder. The quotient is   | - (27)  |
|     | O B. The quotient has a remainder not equal to 0. The quotient is  | 2 rem   |
|     | C. The quotient is undefined.  | '       |
|     |  |         |
|     | Answer: B. The quotient has a remainder not equal to 0. The quotient isR   | 2       |
| 42. | For their wedding, Ben and Jen paid \$11 for each guest's dinner. The total bill was \$1606. How may have at their wedding?  | G       |
|     | guests $\frac{1}{11} = \frac{11}{11} $ | 6       |
|     | 10 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×  |         |
|     | Answer: 146 / ( - )  |         |

| 43. | A truck hauls wheat to a storage haul each trip if each trip it hauls | granary. It carries a total of<br>the same amount? | of 6,370 bushels of wheat in   | 2 93   | loes the truck   |
|-----|---|--|--|--|--|
|     | The truck hauls   | oushels each trip.                                 | 14   | 14 56370<br>- (56)   |  |
|     | Answer: 455   |  | 455=)  | 77 - (70)  |  |
| 44. | Suppose the elevation of a peak                                       |  |  | How many miles tall is   | the peak?  |
|     | The peak is miles   | s tall, $\frac{21}{5}$                             | 120 =  | 52805  | The same of the sa |
|     | Answer: 4   |  | 4=   |  | 011  |
| 45. | Find the average value of the follo                                   | owing list of numbers.                             | 10+11+17+  | 24+25+27   |  |
|     | 10, 24, 27, 25, 11, 17  |  |  | 6  | = 19   |
|     | The average value is  |  | 114 =  |  | 6/114  |
|     | Answer: 19  |  | (19=)  |  | -(54)  |
| 46. | Evaluate.   | 3 32   |  |  | 011  |
|     | 3 <sup>3</sup>  | 3 . 3 . 3 =  |  |  |  |
|     | 3 <sup>3</sup> =  | 9.3=   |  |  |  |
|     | Answer: 27  | 27=  |  |  |  |
| 47. | Simplify.   | PEMDA  | LS   | 27+9.  | 7-   |
|     | 27 + 9 • 7  |  |  | 27+6   |  |
|     | Select the correct choice below an                                    | nd, if necessary, fill in the a                    | answer box to complete you   | r choice.  | ->   |
|     | ○ A. 27+9•7=  |  |  | 10   |  |
|     | ○ B. The expression is undefine                                       | ed.  |  |  |  |
|     | Answer: A. 27 + 9 • 7 = 90  |  |  |  | (  |
| -   |   |  | * 0.00 (17) Publish (1.00 (1.0 | THE PART OF THE PA | 27   |

48. Simplify.



42-7-60

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.



B. The expression is undefined.



## 49. Simplify.

$$50 + \frac{15}{3}$$



Select the correct choice below and, if necessary, fill in the answer box to complete your choice

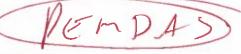
$$\bigcirc$$
 A. 50 +  $\frac{15}{3}$  =

B. The expression is undefined.

Answer: A. 
$$50 + \frac{15}{3} = 55$$



## 50. Simplify.



8.8+607= 64+607=

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

## 51. Simplify.

$$(2+5) \cdot (10-4)$$

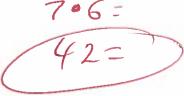


$$(2+5)(10-4)$$
 $(7)\circ(6)=$ 

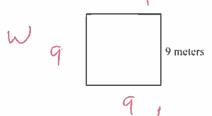
Select the correct choice below and, if necessary, fill in the answer box to complete your choice

$$\bigcirc$$
 A.  $(2+5) \cdot (10-4) =$ 

$$\bigcirc$$
 B. The expression is undefined.



52. Find the area and perimeter of the square shown to the right.



The area of the square is

(2) ometers.

square meters.

The perimeter of the square is

- (2)

Answers 81

(1) square meters.

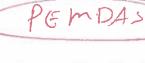
36

(1) O square meters. meters.

(2) meters.

53. Evaluate the expression for x = 2 and z = 3.

$$3 \times 2 - 4 \times =$$

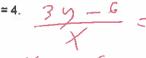


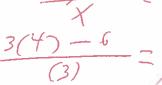
3xz - 4x =

Answer: 10

3xz - 4x

- 54. Evaluate the expression for x = 3 and y = 4.





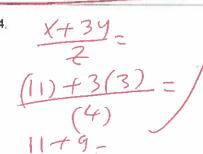


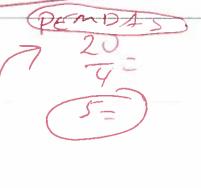
Answer: 2

- 55. Evaluate the expression for x = 11, y = 3, and z = 4.

$$\frac{x+3y}{z}$$

$$\frac{x+3y}{z} =$$





56. Evaluate the algebraic expression for the given value.

$$x^2 - 3x + 5$$
, for  $x = 4$ 

When x = 4,  $x^2 - 3x + 5 = 1$ 

(Simplify your answer.)

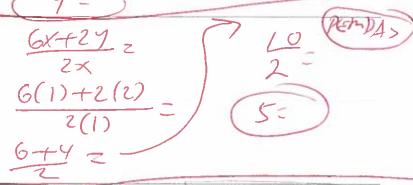


57. Evaluate the following expression for x = 1 and y = 2.

$$\frac{6x + 2y}{2x}$$

The answer is

Answer: 5



11-5=12

15-5=12

58. Determine which numbers in the set are solutions of the equation.

$$n-5=12$$
; {15, 17, 19}

Select the correct choice below and, if necessary, fill in the answer box to complete your choice. / 0 # / 2 / V 0

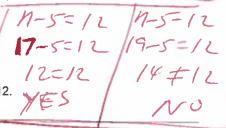
(4) (-3(4) +5=

(4)(4) -3(4)+5=

16-12+5=

- OA. in the set  $\{15, 17, 19\}$  is a solution of the equation n - 5 = 12.
- B. None of the numbers in the set are solutions of the equation

Answer: A. in the set {15, 17, 19} is a solution of the equation  $n - \frac{1}{2} = 12$ .



59. Simplify.

6+9-3-11=

Answer: 22

$$6+9.3-11=$$
 $6+27-11=$ 
 $33-11=$ 

60. Solve. Check your solution.

$$x + 6 = 23$$

The solution is x =

|         | - |
|---------|---|
| 1 Check |   |
| X+6=23  |   |
| 17+6223 |   |
| 23=23   |   |
| Gwa     |   |

61. Solve.

2x = 4

The solution is x =

Answer: 2

62. Solve the following equation.

2x - 2 = 0

Answer: 1

2x=4

2x-2=0

0=0 Good

63. Solve the equation.

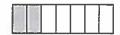
5n + 50 = 55

Answer: 1

5N+50= 55

55=55 Gwd

64. Write a fraction to represent the shaded region of the figure.



A fraction which represents the figure is

Answer:  $\frac{2}{7}$ 



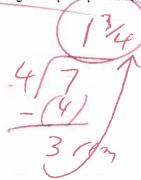
- 65. Represent the shaded part of the group of circles with
  - A. an improper fraction and
  - B. a mixed number.











- A. The improper fraction which represents the shaded area of the figure group is
- B. The mixed number which represents the shaded area of the figure group is

Answers  $\frac{7}{4}$ 

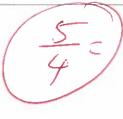
 $1\frac{3}{4}$ 

- 66. Represent the shaded part of the group of triangles with
  - A. an improper fraction and
  - B. a mixed number.











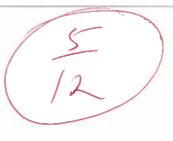
- A. The improper fraction that represents the shaded area of the figure group is
- B. The mixed number that represents the shaded area of the figure group is

Answers 5

 $1\frac{1}{4}$ 

67. Write a fraction to represent the shaded region of the figure.



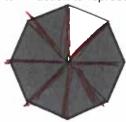


The fraction which represents the shaded region is

Answer:

12

68. Write a fraction to represent the shaded part of the figure.





The fraction representing the shaded part is

Answer:  $\frac{7}{8}$ 

69. Write a fraction to represent the shaded region of the figure.



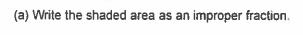
Answer: 5



The fraction that represents the shaded region of this figure



70. Represent the shaded part of the group of figures with (a) an improper fraction and (b) a mixed number.

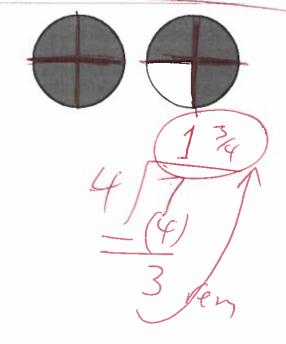


(b) Write the shaded area as a mixed number.









71. Represent the shaded part of the group of figures with (a) an improper fraction and (b) a mixed number.

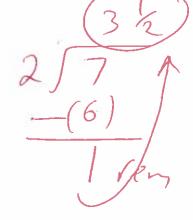


a. Write the shaded area as an improper fraction.



b. Write the shaded area as a mixed number.





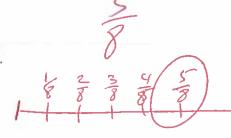
Answers 7 2

72. Write a fraction to represent the shaded part of the syringe.

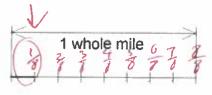


The fraction represented by the shaded parts is

Answer: 5 8



73. Write a fraction to represent the shaded part of the distance.



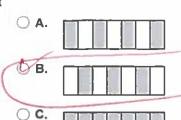
The fraction that represents the shaded part is



74. Each of the objects shown to the right is divided into equal sections and part of each object is shaded. The shaded part is a fraction of the whole object.

Which object represents the fraction  $\frac{3}{7}$ ?

Choose the correct answer below.



D.

E. None of the above.



Answer:



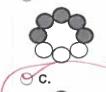
75. Each of the objects shown to the right is divided into equal sections and part of each object is shaded. The shaded part is a fraction of the whole object.

Which object represents the fraction  $\frac{2}{8}$ ?

Choose the correct answer below.

O E.

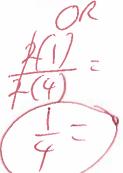
None of the above.







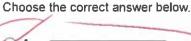






76. Each of the figures shown to the right is divided into equal sections, and part of each figure is shaded. The shaded part is a fraction of the whole figure.

Which figure represents the fraction  $\frac{8}{8}$ ?







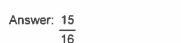


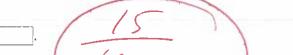
E. None of the above.



77. In an American Sign Language (A.S.L) class of 16 students, 15 are hearing impaired. What fraction of the students are hearing impaired?

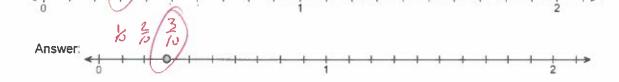
The fraction of the students that are hearing impaired is



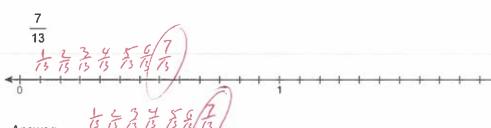


78. Graph the fraction on a number line.



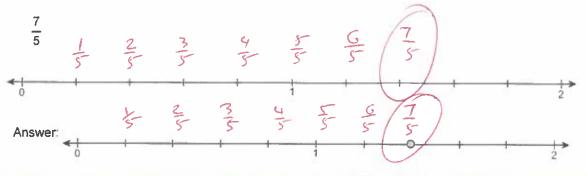








80. Graph the fraction on a number line.



81. Find the prime factorization of the following number.

56

The prime factorization of 56 is

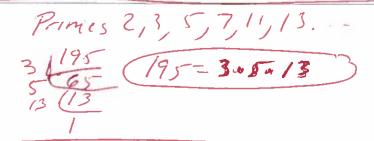
Answer: 23.7

- 82. Find the prime factorization of the following number.

195

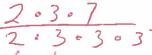
The prime factorization of 195 is

Answer: 3 • 5 • 13



83. Write the fraction in lowest terms.

Answer: 7



Primes 2,3,5,711,13.



84. Perform the indicated operation.

$$4 \div \frac{7}{13}$$

(Simplify your answer.)

| 4 | o | 13 | Ξ |
|---|---|----|---|
|   |   | /  |   |



85. Perform the indicated operation.



 $\frac{3}{11} \cdot \frac{13}{0}$ 

Prina 2,3,5,7,11,13.

(Type an integer or a simplified fraction.)

Answer: 9 13

86. Find  $\frac{1}{5}$  of 120.

 $\frac{1}{5}$  of 120 is

(Simplify your answer. Type a whole number, fraction, or mixed number.)

Answer: 24

Find  $\frac{3}{8}$  of 48. Write the answer in simplest form.

. (Simplify your answer.)

Answer: 18

88. Insert <, >, or = between the pair of numbers to form a true-statement.

5.398 5.398 5.4



Answer: <

89. Write <, >, or = between the pair of numbers to form a true statement.

0.338 0.33800

0.33800 ().33800

0.338 0.33800

rewrite

Answer: =

90. Round the decimal to the nearest tenth.

0.68

0.68 rounded to the nearest tenth is

Answer: 0.7



0.68

Since 8 > 5 round up

91. Round 0.6076 to the nearest thousandth.

0.6076 ≈

28.36

7.608) roud up

Answer: 0.608

92. Round the monetary amount to the nearest dollar.

\$28.36

\$28.36 rounded to the nearest dollar is \$

25 Tourises 28

Since 3 < 5 du not round up

Answer: 28

93. Write as a decimal.

 $9\frac{3}{100}$ 

 $9\frac{3}{100} =$ 

Answer: 9.03

9 100 =

9+.03=

 $-(3 \times)$ 

94. Add the following.

2.4 + 6.15

2.4 + 6.15 = (Type an integer or a decimal.)

Answer: 8.55

+ 6.15 8.55

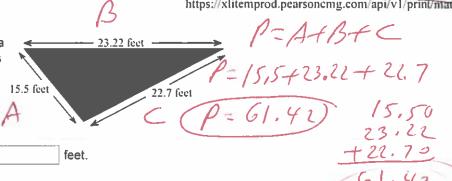
95. Subtract and check the following.

15 - 1.3

15 – 1.3 = (Type an integer or a decimal.)

Answer: 13.7

-1.3 13.7 96. A landscape architect is planning a border for a flower garden shaped like a triangle. The sides of the garden measure 15.5 feet, 23.22 feet. and 22.7 feet. Find the amount of border material needed.



The amount of border material needed is

(Type an integer or a decimal.)

Answer: 61.42

97. The bar graph shows the top five chocolate-consuming nations in the world. Use this graph to answer the following.

Which country has the greatest chocolate consumption per person?

Choose the correct answer below Country E

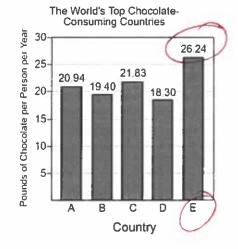
Country E

Country A Country C

Country D

Country B

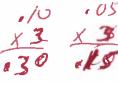
Answer: Country E



98. Use the values of the coins given below. Write the value of the group of coins shown to the right. To do so, it is usually easiest to start with the coin(s) of greatest value and end with the coin(s) of least value.

Nickel Dime















\$0.05

\$0.10

\$0.25

The total value of the group is \$

Answer: 1.45



The approximate circumference is

97.34

Answers 31π

Answer: 118.5

The area is

Answer: 9.1

cheese?

Ouarter

\$0.25

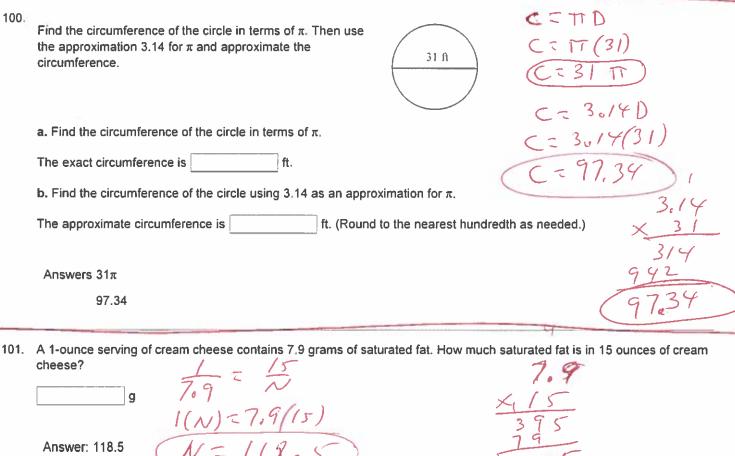
Dime

\$0.10

99. Use the values of the coins given to the right. Name the different ways that Nickel coins can have a value of \$0.18 given that you may use no more than 10 coins. \$0.05 Choose the correct answer below. Select all that apply. A. 3 nickels and 3 pennies B, 2 nickels and 8 pennies C. 1 dime, 1 nickel and 3 pennies D. 3 nickels and 5 pennies E. 1 dime, 2 nickels and 4 pennies 1 dime and 8 pennies Answer: A. 3 nickels and 3 pennies, B. 2 nickels and 8 pennies, C. 1 dime, 1 nickel and 3 pennies, F. 1 dime and 8 pennies 100. Find the circumference of the circle in terms of  $\pi$ . Then use the approximation 3.14 for  $\pi$  and approximate the 31 ft circumference. a. Find the circumference of the circle in terms of  $\pi$ . The exact circumference is

102. The screen of a portable digital device is a rectangle that measures 3.5 inches by 2.6 inches, Find the area of the screen.

square inches. (Type an integer or a decimal.)



| 103. | A meter is a unit of length approximately equal to 39.37 inches. If someone is 1.61 meters tall, what is his or her |
|------|---|
|      | approximate height in inches?   |

Using the given conversion, someone who is 1.61 meters tall has a height of

(Type an integer or a decimal.)  $\frac{1}{39.37} = \frac{1.61}{N}$  N = 63.3857Answer: 63.3857 I(N) = 39.37(1.61) incompatible in the second of t

104. One year, farmers received an average of \$13.165 per bushel of wheat. How much did a farmer receive for selling 100 bushels of wheat?

The farmer received \$

Answer: 1316,50

. (Round to the nearest cent as needed.) X 100

105. Perform the indicated operation.

$$5.8 \pm 0.01$$

5.8 + 0.01 =

(Type an integer or a decimal.)

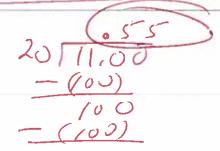
Answer: 5.81

106. Find the decimal equivalent of the following fraction.

$$\frac{11}{20}$$

$$\frac{11}{20} =$$

Answer: 0.55

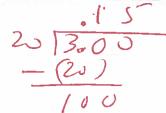


107. Write  $2\frac{3}{20}$  as a decimal.

$$2\frac{3}{20} =$$

Answer: 2.15

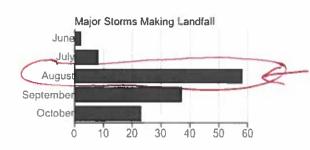
$$2^{\frac{3}{20}}$$
 =



| 108. |   | Annual Fruit Production in Top Producing Regions                    |  |
|------|---|---|--|
|      | the top fruit-producing regions. Which region produced the greatest quantity of fruit?                  | Mountain Region   |  |
|      |   | Southern Region   |  |
|      |   | Coastal Region  |  |
|      |   | Northern Region   |  |
|      |   | Lake Region   |  |
|      |   | Central Region  |  |
|      | Which region produced the greatest quantity of fruit?   |   |  |
|      | ○ A. The coastal region   | B. The mountain region D. The central region F. The northern region |  |
|      | ○ C. The southern region  | D. The central region   |  |
|      | ○ E. The lake region  | F. The northern region  |  |
|      |   |   |  |
|      | Answer: B. The mountain region  |   |  |
|      |   |   |  |
| 109. | The pictograph on the right shows the number of acr devoted to wheat production in the selected states. | Annual wheat Acreage in Selected Top States                         |  |
|      | Approximate the number of acres of wheat planted in   | n state B   |  |
|      | state H.  | state C   |  |
|      |   | state D   |  |
|      |   | state E   |  |
|      |   | state F   |  |
|      |   | state G   |  |
|      |   | state H = 2 million acres   |  |
|      |   |   |  |
|      | The number of acres of wheat planted in state H is approximately million acres.                         |   |  |
|      | (Type an integer or a decimal.)   |   |  |
|      |   |   |  |
|      | Answer: 4   | (2)+(2)=  |  |
|      |   | 2+27  |  |
|      |   |   |  |
|      |   | (4-)  |  |
|      |   | / 7-/   |  |
|      |   |   |  |
|      |   |   |  |

110. The pictograph shows last year's fruit production by Annual Fruit Production in Top Producing Regions the top fruit-producing regions. Which region 200000000 Central Region produces about 85 million bushels of fruit? Southern Region 33331 Lake Region 000 Mountain Region 09 Northern Region = 10 million bushels **a** : Coastal Region Choose the correct answer below. A. The coastal region B. The southern region C. The mountain region D. The central region E. The northern region F. The lake region Answer: D. The central region 111. The pictograph on the right shows the average number of 2006 \*\*\* wildfires in a country between 2006 and 2012. 2007 Approximate the number of wildfires 2008 in 2007. 2009 2010 2011 13,000 fires 2012 13000 The number of wildfires in the year 2007 is approximately (Type an integer or a decimal.) 7 (13wv)= Answer: 91,000 112. The pictograph shows the annual number of wildfires in a region Wildfires in a Region between 2000 and 2005. What was the amount of increase in 8666666 2000 wildfires from 2004 to 2005?  $\nabla \nabla \nabla \nabla \nabla$ 2001 2002 **ልልልልልል** 2003 2004 2005 10,000 fires The number of wildfires in the region increased by about from 2004 to 2005. Answer: 30,000

113. The bar graph shows the number of major storms, by month, that have made landfall in a region between 1851 and 2005. In which month did the most major storms make landfall in the region?



In which month did the most major storms make landfall in the region?

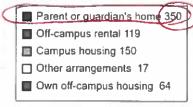
- September
- June
- October



Cannot be determined

Answer: August

114. The circle graph is a result of surveying 700 college students. They were asked where they live while attending college. Use this graph to find where most of these college students live.



Choose the correct answer below.

- A. Parent or guardian's home
- B. Other arrangements
- Oc. Own off-campus housing
- O. Off-campus rental
- O E. Campus housing



Answer: A. Parent or guardian's home

115. Find the square root.

 $\sqrt{64} =$ 

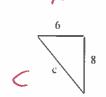
√64

Answer: 8

V64 =

64

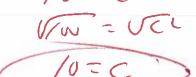
Find the length of the third side of the right triangle.



ATB=CZ (G) L+(7) 2= CL 36+64= CL 100=01

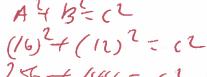
The length of the third side is

Answer: 10



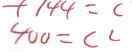
117. Sketch the right triangle and find the length of the side not given. If necessary, approximate the length to the nearest thousandth.





What is the length of the side not given?

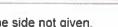
(Round to the nearest thousandth as needed.)





Answer: 20

Answer: 35



118. Sketch the right triangle and find the length of the side not given.

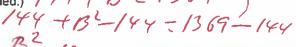


21

The unknown length is

leg = 12, hypotenuse = 37

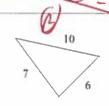


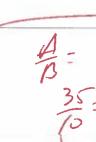


119. Find the ratio of the corresponding

sides of the given similar triangles.

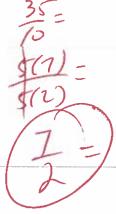




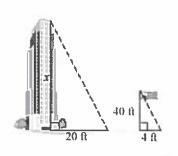


The ratio of the corresponding sides of the first triangle to the second triangle is

(Type the ratio as a simplified fraction.)



120. A triangle is formed by the building's height and shadow. Another triangle is formed by the flagpole's height and shadow. Using the following diagram, find the height of the building.

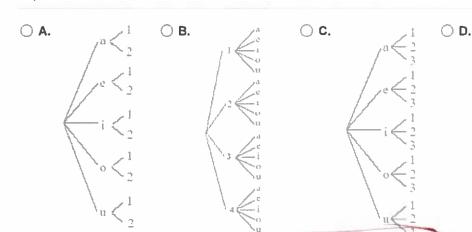


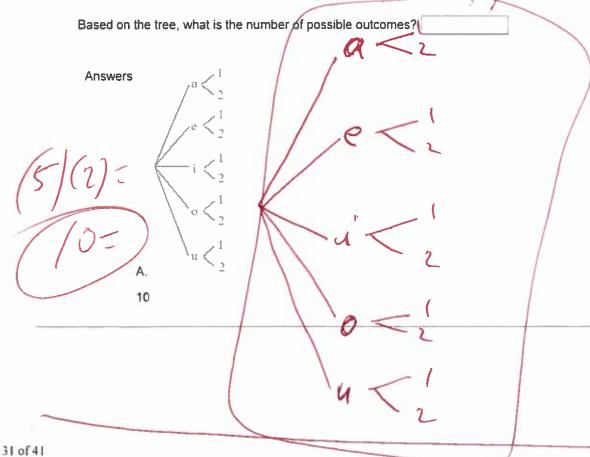
 $\frac{X}{20} = \frac{40}{4}$  X(4) = 20(40) 4X = 800 4X = 800 4X = 800

The height of the building is

Answer: 200

121. Draw a tree diagram for choosing a vowel, (a, e, i, o, u) and then a number (1 or 2). Use the diagram to find the number of possible outcomes.





Draw a tree diagram for spinning Spinner A 2 times. Use the diagram to find the number of possible outcomes.

Choose the correct tree diagram below.

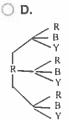


Spinner A

() B.

Based on the tree, what is the number of possible outcomes?







C. 9





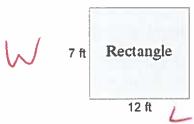
123. A marble is selected at random from a jar containing 3 red marbles, 6 yellow marbles, and 4 green marbles.

What is the probability that the marble is red?

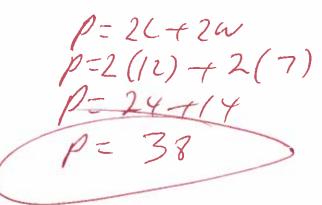
The probability that the marble is red is

(Type an integer or a simplified fraction.)

124. Find the perimeter of the following figure.



Perimeter =



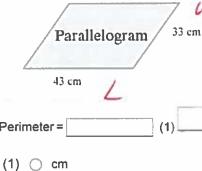
(1) O ft

o sq. ft

Answers 38

(1) ft

125. Find the perimeter of the following figure.



Perimeter =

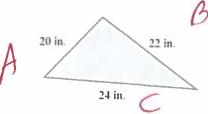
P=2L+2W P=2(43) +2(33)

Answers 152

sq. cm

(1) cm

126. Find the perimeter of the following figure.



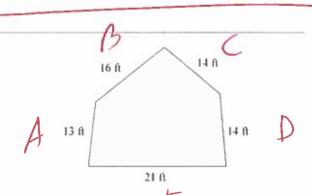
PEA+B+C = 20+22+24

The perimeter is

- (1) sq. in. in.
- Answers 66

(1) in.

127. Find the perimeter of the figure shown to the right.



16 yd

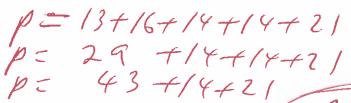
PZA+B+C+D+E Perimeter =

(1) sq. ft.

Oft.

Answers 78

(1) ft.



P= 57+21

128. Find the perimeter of the regular polygon shown to the right.

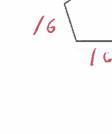


Perimeter =

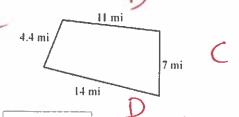
(1) O sq yd O yd

Answers 80

(1) yd



| 129. | 56 yd L  |  |  |
|------|--|--|--|
|      | Perimeter = $P = 2L + 2W$  |  |  |
|      | (1) $\bigcirc$ yd $P=2(11s)+2(56)$ + 117   |  |  |
|      | 0 sq. yd P= 230 + 1/2  |  |  |
|      | Answers 342  |  |  |
|      | (1) yd   |  |  |
|      | (1))   |  |  |
| 130. | A metal strip is being installed around a workbench that is 9 feet long and 3 feet wide. Find how much stripping is needed.  |  |  |
|      | The amount of metal stripping needed to be installed around the workbench is (1)   |  |  |
|      | (1) O ft. P=24+2W  |  |  |
|      |  |  |  |
|      | $p-L(1)+\varepsilon(3)$  |  |  |
|      | Answers 24 $P = 18 + 6$  |  |  |
|      | (1) ft. $P = 24$   |  |  |
| 131. | Find the perimeter of the top of a square compact case if the length of one side is 11 inches.   |  |  |
|      | The perimeter is $P=2L+2W$   |  |  |
|      | (1) $\bigcirc$ square inches.  |  |  |
|      | (1) Square inches.  Cubic inches.  PZZL+ZŁ   |  |  |
|      | inches.  |  |  |
|      | P- 44  |  |  |
|      | Answers 44   |  |  |
|      | (1) inches.  |  |  |
| _    | w (1)  |  |  |
| 132. | A rectangular room measures 10 feet by 12 feet. Find the cost of installing a strip of wallpaper around the room if the wallpaper costs \$0.75 per foot. $P = 2 L + 2 W$ |  |  |
|      | Total cost = \$ $p=2(12)+2(10)$ $\times^{4}$ . $7$ .   |  |  |
|      | Answer: 33.00 $P = 24 + 20$ $\frac{220}{202}$  |  |  |
| 77   | P=44   |  |  |
|      | Trutal Cust  |  |  |
|      | Total COST   |  |  |



- 11.0
- P= 4.4+11+7+14 P= 36.4

- (1) sq mi. mi.
- Answers 36.4 (1) mi.
- 134. Find the circumference of the circle. Give the exact circumference and then an approximation. Use  $\pi \approx 3.14$ .



The exact circumference of the circle is (1) (Simplify your answer. Type an exact answer in terms of  $\pi$ .)

(Type an integer or a decimal rounded to the nearest hundredth.)

= 777

(1) o square centimeters.

The approximate circumference of the circle is

- (2)  $\bigcirc$  centimeters.
- O centimeters.
- o meters.
- O feet.

CETID

Answers  $7\pi$ (1) centimeters.

C < 3.14 D

(2) centimeters.

 $C = 3 \cdot 14(7)$ 

C= 21.98

3.19 X 7 21,78 135. Find the distance around the regular pentagon shown to the right.



The distance around the figure is

(1) yd.

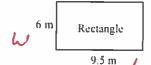
(1)

Answers 265

sq yd.

(1) yd.

136. Find the area of the given geometric figure.



(1)

A=LW

The area of the rectangle is

(Simplify your answer.)

- (1) O sq m.
  - O cu m.
  - () m.

Answers 57

(1) sq m.

137. A computer has shape of a rectangular solid. Find the volume of the computer, with dimensions of 4 inches by 4 inches by 4.9 inches.

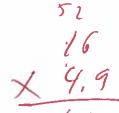
The volume of the computer is

(Simplify your answer. Type an integer or a decimal.)

- (1) O in.
  - sq in.
  - O cu in.

V2LW H

V= (4)(4)(4,9)



Answers 78.4

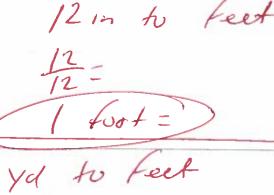
(1) cu in.

138. Convert the measurement indicated.

12 in to feet

12 in =

Answer: 1

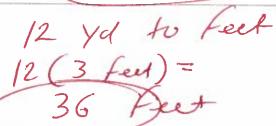


139. Convert the measurement as indicated.

12 yd to feet

12 yd =

Answer: 36



7 < 14

140. Insert <, >, or = in the space between the paired numbers to make the statement true.

7\_\_14

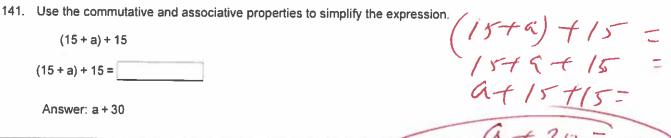
(1) () =

Answer: (1) <

(15 + a) + 15

(15 + a) + 15 =

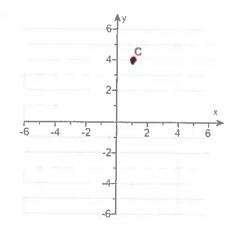
Answer: a + 30



Find the x- and y-coordinates of the point C.

The coordinates of C are (Type an ordered pair.)

(1, 4) (1, 4) (up4)



Answer: (1,4)

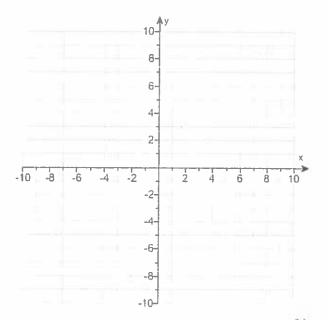
For the equation, find three ordered pair solutions by completing the table. Then use any two of the ordered pairs to graph the equation.

$$y = \frac{1}{2}x$$

Complete the table below.

| Х  | у |
|----|---|
| 0  |   |
| -4 |   |
| 4  |   |

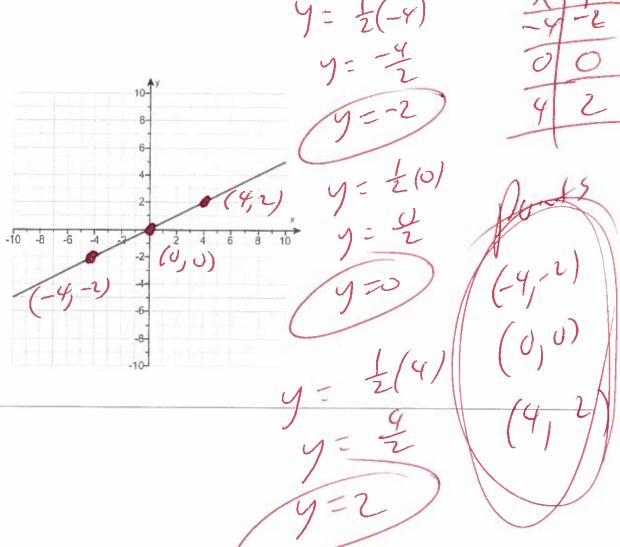
Use the graphing tool to graph the equation.



Answers 0

-2

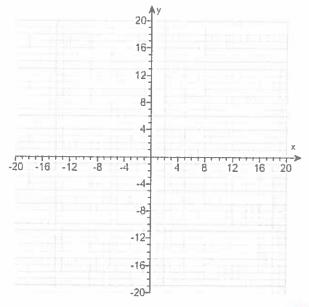
2



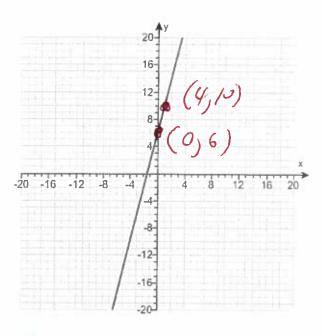
Graph the equation.

$$y = 4x + 6$$

Use the graphing tool to graph the line.

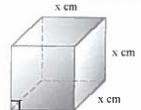


Answer:



y= 4/6 y= 4/6)+6 y= 0+6 y= 6 y= 4(1)+6 y= 4+6

145. The function  $V(x) = x^3$  may be used to find the volume of a cube with side length x. Find the volume of a cube whose side is 10 centimeters.



 $V(A = X^{3})$  V(A) = (A)(A)(A) V(A) = (A)(A)(A) V(A) = (A)(A)(A)

The volume is

cubic centimeters. (Type an integer or a decimal.)

Answer: 1000

V(10) = 1000